CLAIMS

1.   An assay to detect breast cancer, said assay including at least two of the following breast cancer markers: mammaglobin, BU101, and BS106.

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2.   ·   A method to detect breast cancer comprising the steps of:

(a)   obtaining a test sample from a patient;

(b)   contacting said test sample with at least two polypeptides selected from the group consisting of mammaglobin, BU101, and BS106; and

10   (c)   correlating the presence of one or more of the polypeptides of step (b) to breast cancer.

3.   A method of detecting the presence of breast cancer comprising the steps of:

(a)   obtaining a sample from a patient;

15   (b)   contacting said sample with at least two antibodies specific for BS106, mammaglobin, BU101 and a multimeric antigen (MPA),

wherein said multimeric antigen comprises at least one BU101 polypeptide and at least one mammaglobin polypeptide,

wherein said contact is for a time and under conditions sufficient to

20   allow formulation of antigen/antibody complexes; and

(c)   detecting said complexes wherein the presence of said complex indicates the presence of cancer in said patient.

4.   A method of diagnosing breast cancer in a patient comprising the steps of:

25   (a)   preparing a tissue section or cell culture derived from a tumor excised from said patient;

(b)   exposing said tissue section or cell culture to an antibody specific for at least two of the following polypeptides: BS106, mammaglobin and BU101 for a time and under conditions sufficient to allow formation of

30   antigen/antibody complexes; and

(c)   localizing presence of said complexes in said tissue section or cell culture, wherein thepresence of said complexes indicates the presence of breast cancer in said patient.

5.   A method to detect breast cancer comprising the steps of:

(a)   obtaining a test sample from a patient;

(b)   contacting said test sample with at least two polypeptides selected from the group consisting of mammaglobin, BU101, BS106 and MPA; and

(c)   correlating the presence of one or more of the polypeptides of step (b) to breast cancer.